PATENT COOPERATION TREATY

B	BARDEHLE PAGENBERG DOST ALTENBURG GEISSL Galileiplaz 1 • 81679 München SC	J
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INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

	Applicant's or agent's file reference	FOR FURTHER ACTION as we	see Form PCT/ISA/220 ell as, where applicable, item 5 below.
	H100208WO/brä	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
	International application No.		
	PCT/EP2004/005756	27/05/2004	07/08/2003
	Applicant		
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	This International Search Report has bee according to Article 18. A copy is being to	en prepared by this International Searching Au	ithority and is transmitted to the applicant
	This International Search Report consist		
	X It is also accompanied by	y a copy of each prior art document cited in th	is report.
	4. Basis of the report		
.	 Basis of the report a. With regard to the language, the 	international search was carried out on the b	asis of the international application in the
	language in which it was filed, ur	nless otherwise indicated under this item.	
			slation of the international application furnished to
	this Authority (Ri		
	b. With regard to any nucle	eotide and/or amino acid sequence disclose	d in the international application, see Box No. I.
		and an acceptable (See Boy II)	
	2. Certain claims were for	und unsearchable (See Box II).	•
	3. Unity of invention is la	cking (see Box III).	
	4. With regard to the title,		
	l	ubmitted by the applicant.	
	the text has been establi	shed by this Authority to read as follows:	
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\	5. With regard to the abstract,		
• /		ubmitted by the applicant.	•
	X the text has been establi	shed, according to Rule 38.2(b), by this Author	ority as it appears in Box No. IV. The applicant
	may, within one month fr	om the date of mailing of this international se	arch report, submit comments to this Authority.
		•	
	6. With regards to the drawings,	nublished with the electrost is Sigure No.	
	· -	published with the abstract is Figure No	
	as suggested by	•	ungest a figure
	l <u>==</u>	nis Authority, because the applicant failed to sonis Authority, because this figure better characters.	
,		his Authority, because this ligure better charact be published with the abstract.	StoffEdd ald Hiveridelli.
	b none of the lightes is to	be published with the about the	

Form PCT/ISA/210 (first sheet) (January 2004)

INTERNATIONAL SEARCH REPORT

International application No.

PCT/EP2004/005756

Box No. IV Text of the abstract (Continuation of item 5 of the first sheet)

The invention relates to a process for the preparation of a substituted geminal difluoroalkane, wherein an oxime is converted to the gerninal difluoroalkane using a nitrite and a complex consisting of HF and an organic base, as well as its use as an intermediate in the manufacture of pharmaceutical products.

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C07C67/307 C07C69/75

C07C51/363

C07C61/15 C07C251/44

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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC $\,7\,$ $\,^{''}$ $\,^{''}$ $\,^{''}$ $\,^{''}$ $\,^{''}$ $\,^{''}$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data, BEILSTEIN Data, WPI Data, PAJ, INSPEC, COMPENDEX

Category °	Citation of document, with indication, where appropriate, of the relevant passages	. •	Relevant to claim No.
Y	✓ TORDEUX M ET AL: "Chlorination of oximes		1-6
	in hydrogen fluoride: formation of		
	gem-dihalogenoalkanes"		
	JOURNAL OF FLUORINE CHEMISTRY, ELSEVIER		
	SEQUOIA. LAUSANNE, CH,		*.
	vol. 70, no. 2,		
	1 February 1995 (1995-02-01), pages		
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	ISSN: 0022-1139		•
	cited in the application		
	scheme 3		•
	page 208, right-hand column - page 210,		
	paragraph 1; tables 1,3		
	page 212, left-hand column, last paragraph		
	page 212, right-hand column, last		
	paragraph - page 213		
			•
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Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
Special categories of cited documents: A document defining the general state of the art which is not considered to be of particular relevance E earlier document but published on or after the international filing date L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) O document referring to an oral disclosure, use, exhibition or other means P document published prior to the international filing date but later than the priority date claimed	 "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of the actual completion of the international search 21 October 2004	Date of mailing of the international search report 18/11/2004
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Seelmann, M

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International Application No PCT/EP2004/005756

Category, °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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X	✓WO 01/90106 A (PRICE DAVID ANTHONY; PFIZER LTD (GB); WOOD ANTHONY (GB); PERROS MANOU) 29 November 2001 (2001-11-29) claims 1,3,4,9-14,37; examples 4,5	7,8,10
x x	DATABASE CAPLUS CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; XP002301845 Database accession no. 1963:469044 abstract & W. SCHNEIDER ET AL.: "Nitrogen-containing bicyclics" BERICHTE, vol. 96, no. 9, 1963, pages 2377-2386,	9
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•	<pre>XP002301847 & JP 2003 012604 A (DAIKIN KOGYO KK) 15 January 2003 (2003-01-15) formula (2) on page 2; n = 1-10 (Derwent abstract) abstract</pre>	
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